

# ACW-LW8-EXT LoRaWAN repeater

LoRaWAN • IP65 • IoT CLOUD • Repeater

## Networks



LoRaWan®



Local Modbus or LoRa  
P2P

## Performances



Range : up to 15 km

## Power supply



220V

or



Solar panel

## Various



Waterproof casing  
IP65



Web platform



SMS and Emails alerts



The **ACW-LW8-EXT** allows LoRaWAN devices to be repeated in locations with poor network coverage such as underground parking or basement boiler rooms. Both uplinks and downlinks frames are supported using the Orange infrastructure.

This radio modem is compatible with all LoRaWAN products. It is transparently embedded between the network and the products to be repeated. Thanks to a dedicated application, it is possible to supervise devices that are repeated (adding, deleting, displaying information). The installation is easy and simple; just plug in the power supply and set the devices to repeat. These will be repeated after completing a join phase with the Extender.



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## Technical features

<i>Dimensions</i>	177 x 55 x 55 mm
<i>Antenna</i>	Integrated (¼ wave)
<i>Temperature</i>	-20°C to +55°C (operating mode) -40°C to +70°C (storage)
<i>Mounts to</i>	Wall, tube, DIN rail
<i>Casingf</i>	IP 65
<i>Power supply</i>	220 V
<i>Weight</i>	210 g
<i>Consumption</i>	À 3.3V
<i>Tx mode</i>	50 mA
<i>Rx mode</i>	20 mA

### *Radio characteristics in repeater mode*

#### *End device interface – Uplinks*

<i>Frequency</i>	<i>LoRaWAN Channel 2 – 868.3MHz</i>
<i>Sensibility</i>	<i>-140 dBm</i>
<i>Rate</i>	<i>SF12</i>

#### *End device interface – Downlinks*

<i>Frequency</i>	<i>869.525 MHz</i>
<i>Power</i>	<i>25 mW (14dBm)</i>
<i>Rate</i>	<i>SF12</i>

#### *Network interface – Uplinks*

<i>Frequency</i>	<i>863 – 870 MHz</i>
<i>Power</i>	<i>25 mW (14dBm)</i>
<i>Rate</i>	<i>SF9 to SF7</i>

#### *Network interface – Downlinks*

<i>Frequency</i>	<i>868 – 870 MHz (Rx1) / 869.525 (Rx2)</i>
<i>Sensibility</i>	<i>Max : -140 dBm</i>
<i>Rate</i>	<i>SF9 to SF7 (Rx1) / SF12 (Rx2)</i>

### *Radio characteristics in supervision mode*

#### *Network interface – Uplinks*

<i>Frequency</i>	<i>863 – 870 MHz</i>
<i>Power</i>	<i>25 mW (14 dBm)</i>
<i>Rate</i>	<i>SF9 to SF7</i>

## References

### Power supply 220V :

- ACW/LW8-EXT-PWR  
*LoRaWan*

### Solar panel power supply :

- ACW/LW8-EXT-SLR  
*LoRaWan*

Available with the ACW platform subscription or with the product exclusively.



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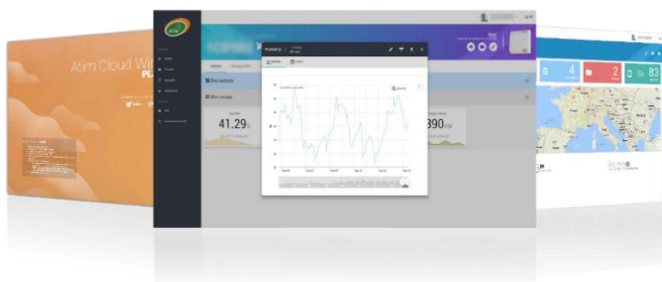
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## Network interface – Downlinks

Frequency	863 – 870 MHz
Sensibility	Max : -140 dBm
Rate	SF9 to SF7 (Rx1) / SF12 (Rx2)

## Atim Cloud Wireless® Platform



Control all your ATIM devices using **Sigfox** and **LoRaWAN** on one single secured web platform. Access and manage your **IoT data** very easily. Thanks to the new LPWAN networks, device remote **management** and **telemetry** become simple and accessible to everyone.

-  Device management group
-  Real-time data follow-up through user-friendly control panel
-  First-class signal quality
-  Personalization of graphics and information channels
-  SMS alerts
-  Export your data (by product or by group)
-  Emails alerts
-  Geo-tracking of each product
-  Secured API



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